

In the claims:

Kindly cancel claims 4, 9-16, 20-22, 24, 26, 28, and 31-32 without prejudice.

Kindly amend claims 1-3, 5-8, 25 and 27 as follows:

1. A method for controlling starch synthesis in tomatoes comprising:
providing a population of plants derived from interspecific crosses of *Lycopersicon hirsutum* with *Lycopersicon esculentum* genotypes; and
selecting individuals of said population that each contain an allele of a gene that increases the activity of ADP-glucose pyrophosphorylase (ADPGPPase), said allele originating from said *Lycopersicon hirsutum*.
2. The method according to claim 1 wherein said step of selecting comprises selecting individuals that each contain the allele of the gene that encodes for a subunit of ADPGPPase.
3. The method according to claim 1 wherein said step of selecting comprises selecting individuals that each contain the allele of the gene that encodes for the large subunit (LS1) of ADPGPPase.
5. The method according to claim 1 wherein said step of selecting comprises selecting by using a molecular marker which is diagnostic for said gene.
6. The method according to claim 5 wherein said molecular marker is diagnostic for a subunit of ADPGPPase.
7. The method according to claim 5 wherein said molecular marker is diagnostic for the large subunit (LS1) of ADPGPPase.
8. The method according to claim 1 wherein said step of selecting comprises selecting by measuring ADPGPPase activity of said young fruit, and selecting those young fruit with high ADPGPPase activity.

B3

25. A fruit produced by the plant of claim 23.

B4

27. A seed which when grown yields the plant of claim 23.